

WHAT IS CLAIMED IS:

1. An explosively driven Radio Frequency (RF) pulse-generating device, said device comprising  
a helical Magneto-Cumulative Generator (MCG), and  
a capacitor connecting a turn of the helix of the MCG to an end cap of the MCG,  
detonation of said MCG producing hydrocarbon byproducts that form a vortex wake,  
said vortex wake forming an antenna with a conical-shaped structure and emitting an RF pulse.
2. An explosively driven Radio Frequency (RF) pulse-generating device, said device comprising a Helical Magneto-Cumulative Generator (MCG), detonation of said MCG producing hydrocarbon byproducts that form a vortex wake, said vortex wake forming an antenna with a conical-shaped structure, said vortex wake emitting an RF pulse at a tail end of the MCG and, upon flight, bow-shaped shockwaves create an RF pulse at a head end of the MCG, whereby said head end is at an opposite end of the MCG to said tail end.
3. An assembly of two devices as set out in claim 2 wherein the two devices are placed head-to-head so that, without flight, two vortex wakes emit in opposite directions.
4. The device in claim 3 wherein the two devices are ignited at approximately the same instant.
5. The device of claim 4 wherein the helical MCG is a medium-size device containing 0.5 to 2 kg of high energy explosive and generating a RF pulse of 10-40 kJ.

6. The device of claim 4 wherein the helical MCG is a small-size device containing 10 to 60 g of high energy explosive.
7. The device of 6 wherein a low-ionization material is added in the form of a slab to prolong the lifetime of the vortex wake.
8. The device of claim 1 wherein the helical MCG is a medium-size device containing 0.5 to 2 kg of high energy explosive and generating a RF pulse of 10-40 kJ.
9. The device of claim 1 wherein the helical MCG is a small-size device containing 10 to 60 g of high energy explosive.
10. The device of 1 wherein a low-ionization material is added in the form of a slab to prolong the lifetime of the vortex wake.